

## AWARD DISTRIBUTION SET MARCH 14, 15



THE FOOD SLICER TO BE GIVEN IN THE CURRENT SAFETY POSTER CONTEST is demonstrated by Gail Belton, Process Analysis. The slicer is the first prize and the gasoline can at left is the second award offered in the "Off-the-Job" slogan-sketch competition. This poster will be used in the June safety campaign.

### 'Off-Job Accidents' Is Theme For Current Poster Contest; March 31 Is Deadline

**Food Slicer And Gas Can Offered As Prizes Should Produce Many Fine Entries For June**

"For lo, the winter is passed . . . and the voice of the power mower is heard throughout the land," so might have spoken Solomon in the 20th Century. The lethal grass cutters will be out in force in a matter of days as the lawns all over take on their annual shaggy appearances. Thus, the Y-12 Safety Department's safety poster theme for the March contest is most appropriately placed around "Off-the-Job Accidents." The theme is for June posters.

Since the ratio of off-the-job accidents involving Y-12ers last year was 25 to 1 compared to mishaps on-the-job, it is particularly fitting that some attention is given accident-prevention away from the plant.

#### Excellent Prizes Offered

Two fine awards are being offered in the competition. The first prize will be a handsome food slicer, a welcome addition to any kitchen. It is fine for slicing meat, cheese, bread or vegetables. The second prize is announced as a gasoline can approved by the Underwriters Laboratory as one suitable for storing gasoline or other flammable liquids.

The wide latitude of ideas offered by this theme should give wide vent to a number of slogans and sketch ideas in the competition. The contest will close Friday, March 31. All Carbide employees in the Y-12 area are eligible to enter, as well as members of their families. Ideas should be submitted on eight and one-half by 11-inch paper, and must show the employee's name, address and badge number. If the entry is from a member of the employee's family, the same information should appear, plus the relationship of the entrant to the employee.

#### Past Winners Ineligible

Only members of the Safety Department and previous winners in poster contest are ineligible to enter. Wording on the poster should not exceed 10 words. If the employee's artistic talents are rather slight a written

Continued on Page 4

### Outlook For 1961 Bright In UCC's Annual Report

**\$219,000,000 Spent In Plant Expansion During Record Year**

Union Carbide expects its expenditures for new plants and research to be maintained at a high level in 1961 because of the strong position of its products in the faster-growing areas of the nation's economy, according to the Corporation's annual report just mailed to stockholders and all UCC employees.

In 1960, Union Carbide spent an all-time high of \$219,000,000 for construction of new facilities, about \$83,000,000 more than in 1959. Although it is anticipated that 1961 expenditures will be lower, they will be maintained at a level that the Corporation believes will contribute to its long-term growth. Nearly all of Union Carbide's divisions have been engaged in extensive expansion programs that will be continued during the current year.

#### Plastics-Chemicals Lead

New facilities for chemicals and plastics accounted for 69 per cent of Union Carbide's total construction expenditures in 1960. Important facilities under construction included the Corporation's eighth major chemicals producing center, nearing completion at Brownsville, Tex.; a large-scale unit for producing Sevin insecticide, recently placed in operation at Institute, W. Va.; and additional facilities for producing various chemicals and polyethylene plastics at Seadrift, Tex. New units were also installed for producing chemicals at Texas City, Tex., and additional installations were placed in operation at South Charleston, W. Va., for producing both chemicals and plastics. In addition, a new plant is being completed at Marietta, Ohio, for the production of an important plastics raw material.

Other significant building projects mentioned in the report included a laboratory just completed at Lawrenceburg, Tenn., for experimental work on the use of graphite and graphite-base materials for missile and space vehicle components; the first privately owned and operated liquid hydrogen plant in the country at Torrance, Cal., which is supplying this important product for missile and space operations on the West Coast; and new plants at Huntsville, Ala., and Neosho, Mo., for producing liquid oxygen and nitrogen for missile use. At several locations throughout the country, new "on-site" facilities were put into operation for furnishing oxygen to the steel industry. The report also mentioned a new ore beneficiation plant at Newport News, Va., and an addition to the alloy plant at Marietta, Ohio, which resulted in a 20 per cent increase in capacity for producing electrolytic manganese.

Canadian operations also have

Continued on Page 3

### SAFETY SCOREBOARD

The Y-12 Plant Has  
Operated  
16 Days Or  
425,000 Man-Hours  
(Unofficial Estimate)  
Without A Disabling  
Injury  
Through March 5  
Phone 7755  
For Daily Report  
On Accident-Free Hours

### Camera Club Sets Meeting March 14

**Program To Be Held In New Club Quarters**

An interesting program has been arranged for the Carbide Camera Club meeting to be held next Tuesday night, March 14. The meeting will be at 8 o'clock in the new quarters of the club in Cheyenne Hall, Tyronne Road, Oak Ridge. It will be the first meeting in the new quarters.

The program will be featured by a color film on the Rose Parade in Pasadena, Cal., on New Year's Day. Commentary on the film will be given by Morrison Jackson, former president of the club.

The club competition for March will be "seascapes" in color slides and an "open" contest in black and white photographic prints. The prints should not be more than five by seven inches on eight by 10-inch mounts. The entries should be brought to the meeting by contestants.

The new quarters of the Carbide Club in Cheyenne Hall will provide considerably larger quarters for meetings and also for the dark room facilities of the club.

### Zachary Named Patent Head For Local AEC Installations

David S. Zachry, Jr., is the new chief of the Patent Branch for the Atomic Energy Commission's Oak Ridge Operations.

Zachry, who succeeds the late S. W. Scott, has been associated with the atomic energy programs since 1947, first as an electrical engineer. A native of Chattanooga, Tenn., he was graduated from the U. S. Naval Academy in 1943 with a Bachelor of Science degree and received his LL.B. degree from University of Tennessee in 1953.

### German Scientist To Talk At Physics Seminar Friday

A German scientist from the University of Erlangen and the Oak Ridge National Laboratory Physics Division will speak at a divisional seminar on Friday afternoon of this week, March 10. He is Horst H. F. Wegener, whose subject will be "Mossbauer Effect in Nuclear Physics." The seminar session will be at 3:15 p.m. in the central auditorium of Bldg. 4500, ORNL. Y-12ers interested in the subject are invited to attend.

### Delivery Planned At All Portals On Both Days

**Pickups Scheduled 6:30-8 A.M., 2-5 P.M., Tuesday, Wednesday**

The long awaited distribution of individual safety awards to Union Carbide Nuclear Company employees in the Y-12 Plant Area who helped establish the record-breaking 26th Union Carbide Corporation Safety Period has been set for next Tuesday and Wednesday, March 14 and 15. The thousands of fine items will be handed out at the East, North, Central, West and Bear Creek Portals on both days from 6:30 a.m. to 8 a.m. and 2 p.m. to 5 p.m.

No distribution will be made at Biology Portal. Items for Oak Ridge National Laboratory employees in Bldg. 9207 will be made through the office of Virginia White in that building.

#### Early Pickup Is Urged

All UCNC employees are requested by the Safety Department to call for their awards at the portal originally designated on selection cards. They also are

### Corning Ware Articles Fail To Arrive For Distribution; Selectors Need Not Apply

All of the 25 items on the individual safety award list have been received and ready for distribution except the four-piece set of refrigerator and cooking dishes under the name of Corning Ware. No definite date has been set for delivery of these articles by the manufacturer but just as soon as the Safety Department received word on shipment it will be announced in The Bulletin. This award was ordered by 441 employees and these persons are advised not to expect delivery on them on next Tuesday and Wednesday.

urged to pick them up on the two days designated for distribution. All articles not given out on next Tuesday and Wednesday will be returned to the Safety Department where they may be obtained later.

Another request by the Safety Department is that the award items be picked up on leaving the plant. Many of them are so bulky that it is considered inadvisable to bring them into the plant.

#### Awards For Best Periods

The UCNC Safety Period for which the awards are to be given extended over a period of 10,307,137 accident-free hours of plant operation. In addition to the individual awards to employees Awards of Honor from the Atomic Energy Commission and the National Safety Council and a bronze Safety Service Bar from Union Carbide Corporation to attach to the original plaque and 24 other Safety Service Bars attesting to the previous fine safety record of the Y-12 Plant.



# The Bulletin

Published Weekly By And For  
Y-12 Employees Of  
UNION CARBIDE  
NUCLEAR COMPANY  
Division Of  
UNION CARBIDE CORPORATION

GEORGE W. DOBBS Editor

## OFFICE

Post Office Box Y  
Oak Ridge, Tenn.

Bldg. 9704-2 Room 149  
Telephones 7100 - 7109

## Beta Four Y-12ers Have Farewell Party For Beth

When the Y-12 folks in the Beta Four building decide to pitch a party — all guests can expect a real whing-ding. So no one was disappointed when both the men and women of various departments gathered on Wednesday, March 1, to bid farewell to Beth Bridgeman, of the Beta Four Heavy Machine Shop, who left last Friday to make her future home in Agra, Kan., to be near her folks.

Harold Alvey, also of the Beta Four Heavy Machine Shop, acted as master of ceremonies and presented Beth with a set of mixed luggage. Other gifts were presented from friends in her own department, Welding and Forming, Assembly, Mechanical Engineering and Special Projects. She made a short talk, "Thank you all so much," to win best wishes on her departure.

Later that evening the gals of the aforementioned departments met at the Oak Ridge home of Margaret Williams, Special Projects, for a "surprise" party. Gifts of a more personal nature were presented and a cake in the form of a trailer piled high with baggage and two gum drop children, representing Beth's two boys, and pulled by a toy automobile. The trailer bore a sign "Kansas or Bust."

## Adult Education Enrollment Starts On Monday, March 13

The Spring Quarter of the Adult Education Program at the Oak Ridge High School will begin new classes Monday, March 27. Registration starts in the various classes next Monday, March 13. The hours of the registrar's office are from 6:30-9 p.m. Monday through Thursday.

Such diverse courses as art, various languages, rapid reading, and sewing are offered along with the business subjects and other subjects giving high school credits. Further information may be obtained at the AEP office at the high school.

Security is a year around job in the Y-12 Plant.



The Cowardly Lion, of Wizard of Oz fame tried desperately to change his character and replace the Lion of March—but the craven, sobbing feline of fiction couldn't make the switch last week, although he could get "A" for effort in the early morning hours of March 1. Meanwhile the Lamb of March did a complete turnabout to become a mean old sheep with horns to chase Mr. Lion out of the picture and bring in the month with a smidgen of mildness, at any rate. However, discussing weather is the most dangerous activity the Colyum can engage in—for right at this writing, for instance, Old Sol is beaming down brightly; and by whistle tooting time Jupiter Pluvius might be emptying all his buckets of rain over the premises.

So, forsaking the hazards of forecasting, the Colyum Conductor will proceed with producing the dissa and data concerned—while the sun still is shining and before the showers start. First division in line is—

## MAINTENANCE

Welcoming his third son on February 25 was George Oliphant, Research Services. Little Steven checked in at nine pounds, six ounces . . . Get well wishes are sped to E. L. Pickard, who recently underwent eye surgery for the second time.

An old timer can remember when a free plug was a potato for the spout of a kerosene can.

## INDUSTRIAL RELATIONS

To qualify Y-12 Guard G. H. Harvey for membership in the Proud Grandpop's Club (Junior Grade) young Tracy Scott Clark jumped right into this big, wide



Tracy Clark

world on Friday, February 24, at 6:05 a.m. The parents are Mr. and Mrs. Calvin Clark, of Kingston, Mrs. Clark being the former Miss Maxine Harvey, daughter of the Y-12er. The youngster is the first progeny in the Clark family . . . In other news from the Boys in Blue and Gray of the Fire and Guard Department welcomed the aforesaid Guard Harvey back after a spell with the miseries—they didn't have anything to go with becoming a grandpop, either.

An automotive invention that is badly needed—brakes that get tight when the driver does.

## MECHANICAL OPERATIONS

The lads in Forming have T. W. Moneymaker somewhat befuddled. Seems as how he has one

of them there beetle bugs on wheels—but it wouldn't start on a recent frigid dawning. Some pal (?) offered him a starting cord from a power lawn mower and vowed to help Moneymaker "spin" the vehicle. "Twern't funny," muttered the Y-12er, who adds he don't need no "key" with which to wind up the contraption neither.

Recipients of get well wishes from Tool Grinding are Joe Pryson and J. H. Oldham.

The Beta Four Assembly and Forming folks were busy last week congratulating J. A. Massengill, who became a newlywed on February 18.

Although conscience doesn't keep a guy from doing the wrong thing, it certainly keeps him from enjoying it.

## FINANCE AND MATERIALS

Engineering Records sends rapid recovery wishes to ailing John Henley.

## ENGINEERING

The welkin was ringing out loud and long last Thursday, March 2, when Kenny Pluhar popped into Mechanical Engineering quarters with news that he had become a member of the Proud Pop's Club—for the third time. Kenny, Jr., was born at 11:15 a.m. at Oak Ridge Hospital and weighed eight and one-half pounds. The blessed event adds another stripe to the Grandpop's chevron proudly worn by Eddie "Grandflappy Snowdrift" Pluhar, of the just previously reported Finance and Materials Division . . . Ron Miskell's group in the MEs warmly welcomed newcomer Dorothy Brown last week . . . Another switch came when Willard Mabe was transferred from Tommy Swindell's Group to the one headed by Bill Forrester . . . Greeted from a transfer from Oak Ridge Gaseous Diffusion Plant was Ray Wagner.

Among bass fishermen the smallmouth is considered more desirable than the largemouth. This also is true among people.

## SHIFT SUPERINTENDENTS AND UTILITIES

The smiling countenance of Dave Harrigan is beaming again around the PSS Office after a siege of miseries.

Utilities folks and everyone in the division is happy for Jean Jones, formerly of the department, and her hubby, Gordon, of the ORGDP, who became proud parents of a baby girl on Friday, February 24. The young lady weighed six nifty and trim little pounds and was named Beverly Ann. Mom and the tot are reported doing just fine, as was Pop, and miles of congratulations are sent their way . . . Utilities last week welcomed R. E. Plemons,



Miss Jane F. Luttrell

transferred down from the Sunflower Shop; and E. D. Lay, a former employee who is back in the fold . . . Condolences are extended L. M. Adams, whose nephew died recently in Sparta, Tenn. . . . Clyde Bowen is the proud possessor of a handsome green pencil inscribed "First prize for best speech in the Dale Carnegie Course," awarded February 23, at the Farragut Hotel, Knoxville. His speech was entitled "Why We Must Win Friends and Influence People to Succeed."

The popularity of the automatic dishwasher stems from the fact that most husbands would rather buy one than be one. Take it from the CC—he knows.



Get well wishes are sent the following Y-12 employees who were patients last week in the Oak Ridge Hospital:

C. A. Boyd, Sunflower Shop; M. L. Sullivan and S. H. Kesterson, Guard; M. B. Tate and E. A. Marler, Mechanical Maintenance; R. H. Bradshaw, General Machine Shop; J. H. Oldham, Tool Grinding; J. M. Case, Superintendents.

## AEC's Schulte Has 30-Year Anniversary In Civil Service

Edwin C. Schulte, chief of the Printing Branch for the Atomic Energy Commission's Office of Technical Information Extension, has been presented with a pin marking completion of 30 years of federal service.

The award was made by Edward J. Brunenkant, Acting Director, Office of Technical Information, Washington, D. C. Schulte, who had extensive prior service with the War Department, joined the atomic energy program with the Manhattan Engineer District in 1943, subsequently transferring to the AEC when it assumed responsibility for the program in 1947.



## LUTTRELL—KLOBE

Mr. and Mrs. Bishop Luttrell, 136 Nevada Circle, Oak Ridge, have announced the engagement of their daughter, Jane Frederica, to William Dale Klobe. The bride-to-be, a graduate of Oak Ridge High School and East Tennessee State College, Johnson City, Tenn., is in the Y-12 Employment Office.

The bridegroom-elect, whose parents live in Frohna, Mo., is in the Production Division at the Oak Ridge Gaseous Diffusion Plant. They are Mr. and Mrs. George N. Klobe. He attended Southeast Missouri State College, Cape Girardeau, Mo., and holds a B.S. and M.S. degree from the University of Missouri, Columbia, Mo. The groom-elect is a member of Alpha Zeta honorary fraternity and the graduate fraternity Gamma Alpha.

The couple will be married at St. Mary's Catholic Church, Oak Ridge, at 11 a.m., Saturday, May 13.

## Y-12ers With 15, 10 Years Company Service

Congratulations to the following Y-12ers who will complete 15 and 10 years of Company Service within the next few days:

### 15 YEARS

Nevie Barton, Research Services, March 8.

Wilburn W. Combs, Production Analysis, March 12.

John E. Harding, Production Control, March 14.

### 10 YEARS

Aubrey J. Ballinger, Guard, March 8.

George H. McGrath, Jr., Guard, March 9.

Charlyne S. Smith, Medical, March 9.

Doyle E. Watson, Chemical, March 9.

Garnett E. Gilreath, Guard, March 12.

James F. Winfree, Product Processing, March 12.

Woodrow T. Rumph, Jr., Sunflower Shop, March 12.

Herman R. Butler, Jr., Product Processing, March 12.

Virginia B. Newby, Z Area, March 12.

Grady L. Nichols, General Machine Shop, March 13.

Charles H. Slaton, Guard, March 13.

Robert E. Schabot, Beta Two, March 13.

Wilburn Burum, Janitors, March 13.

Hence Mitchell, Z Area, March 14.

Thomas W. Johnson, Buildings and Grounds, March 14.

## Three Y-12 Thespians To Star In Playhouse Opus 'The Visit'

Three Y-12ers will have prominent roles in the Oak Ridge Playhouse production of "The Visit," that opens tomorrow night, Thursday, March 9. Ernest Earley, Electrical Engineering; Harwell Smith, Production Inspection; and Lew Skeel, Physical Testing, will be seen in the unusual drama of a wealthy woman who returns to her home town for revenge on a man in her past.

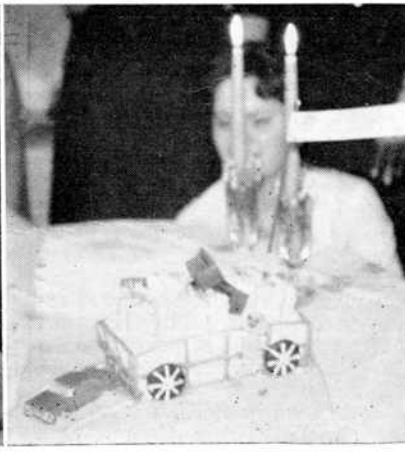
"The Visit" will run this weekend, March 9, 10, and 11 as well as next week-end March 16, 17 and 18. Student rates will be in effect for both Thursday performances. Ticket reservations may be made by calling Oak Ridge 483-1224 or stopping by the box office in Jackson Square. The box office is open from 10 o'clock in the morning through 5:30 p.m., except on performance days when it remains open continuously through 9 o'clock a.m.



Y-12 GALS IN THE BETA FOUR BUILDING bid farewell to Beth Bridgeman, Beta Four Heavy Machine Shop, who left last Friday to make her home in Kansas. At a party held Wednesday night, March 1, at the home of Hostess Margaret Williams, Special Projects, festivities were opened, left, with Kay Sideris, at right, pinning a pink camelia on the guest of honor. Most of the guests are shown in the center



picture. Standing, from left, are Martha Blevins, Ruth Young, Helen Long, Jeri Kobisk and the honoree. Seated are Kay Sideris, co-hostess, Bonnie Stenglein, Ella Stansell and Hostess Margaret Williams. At right Ella Stansell peeks at the cake baked for the honoree by the hostess. The decoration is a simulated trailer piled high with baggage and pulled by a toy automobile.

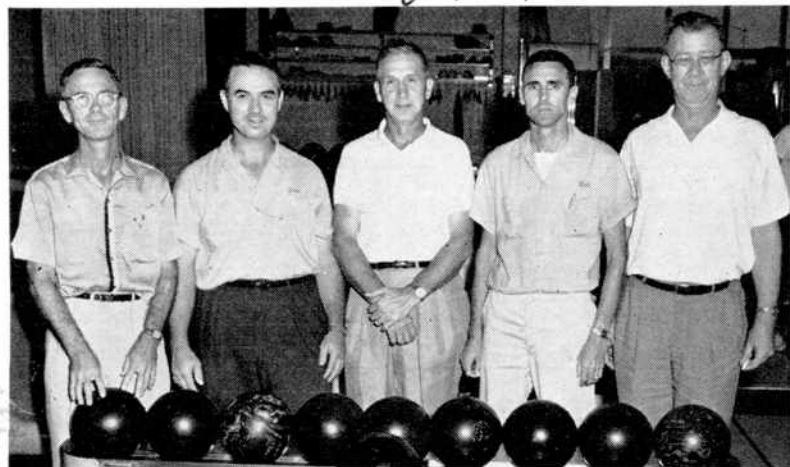




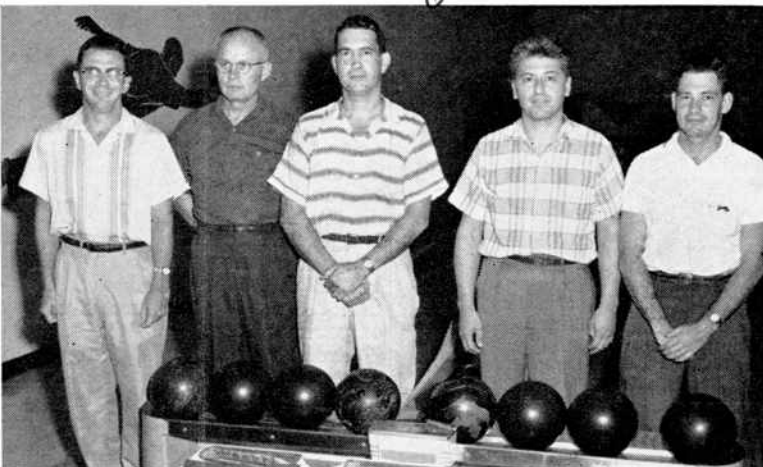
# ALL-CARBIDE PIN PARTY SET FOR APRIL 8, 9, 15, 16

6-10241

6-10250



ANOTHER PAIR OF CLASSY TEAMS IN THE CLASSIC LEAGUE of Y-12 bowlers is shown above. At left are the Has Beens. Bowlers from left are Rudy Pletz, Capt. Jack McLendon, Roy Roberts, B. F. Rutherford and John Reece. The team at right



is the All Stars, bowlers being Otto Briscoe, Bruce Whitaker, Roy Waldrop, Capt. Tom Pappas and R. A. Huber. This league, oldest plant loop in Oak Ridge, is staging a sizzling race for top honors.

## Entry Deadline Is Set March 24

March 10 Handicaps To Prevail In Meet

The biggest annual pin party for Oak Ridge—the 1961 All-Carbide Bowling Tournament—will be rolled at the Ark Lanes on April 8, 9, 15 and 16. With interest in the alley action high at all three Carbide installations this year, a record entry list of men and women is expected. As in plant tournaments held so far this season, eligibility is limited to bowlers employed by the Y-12 and Oak Ridge Gaseous Diffusion Plants and the Oak Ridge National Laboratory who have rolled a minimum of 12 games in regular sanctioned plant league play by March 10.

Sanctioned By ABC, WIBC

The tournament is sanctioned by both the American Bowling Congress and the Women's International Bowling Congress and contestants must hold cards in one or the other of these organizations to be eligible to compete.

The deadline for entering the All-Carbide tournament is 4 p.m. on Friday, March 24. Entry fees for both men and women will be \$2.75 per person with an optional all events fee of 50 cents required if the bowler wants to compete for all events prize money. The \$2.75 fee is divided with \$1.25 going for prize money and \$1.50 for bowling fees. The total entry fee for bowling with a team, doubles, singles and all events is \$8.75 per person. Entry fees must accompany all entry applications.

Secretaries Have Forms

Entry blanks for the tournament may be obtained by Y-12ers wanting to compete from secretaries of the four plant bowling leagues. The entry blanks shall be channelled through the league secretaries to the Y-12 Recreation Office, Room 149, Bldg. 9704-2.

Averages to be used in determining tournament handicaps will be the highest plant league averages of the entrants on March 10. All averages must be certified by league secretaries.

All teams, both men and women, will bowl on the first week end of the tournament, April 8 and 9. Doubles and singles will be rolled on April 15 and 16. In making up the tournament schedule preference will be given only to shift bowlers.

## Lucky Five Holds Bush League Lead

Despite being held to a two point each deadlock by the Beavers, the Lucky Five held on to first place in the Bush League in February 27 action. Easing into second place were the Rodders, advancing with a four-point forfeit win over the defunct Alley Gators, which dropped from the loop. Resting in third place were the Pin Busters, three-point winners over the Balls O' Fire, despite an individual scoring sweep by R. D. Smith. The Nine Pins blanked the Hi Balls for four and the Rollmasters rolled the Rollniks for three.

Smith posted a 540 scratch series that included his high single game of 213. In handicap scoring his marks were 244 and 633. In sweeping all team scoring honors the Pin Busters racked up a 902 scratch and 1031 handicap game, 2522 scratch and 2909 handicap series.

Team	W	L
Lucky Five	17	3
Rodders	15	5
Pin Busters	14	6
Rollniks	12	8
Beavers	11	9
Nine Pins	11	9
Rollmasters	8	12
Balls O' Fire	6	14
Hi Balls	5	15

## Y-12 Fishing Rodeo Opens On Saturday; Fine Prizes Offered

Y-12 anglers will have a marvelous opportunity to pick up some fine awards for their proficiency in pursuing various species of the finny tribe in the first Y-12 Fishing Rodeo of the season. The event opens on Saturday of this week, March 11, promptly at 12:01 a.m. It will continue through midnight on Monday, June 12, allowing three months for participation.

Entry blanks now are available at the Y-12 Recreation Department, Room 149, Bldg. 9704-2.

Species of fish eligible for entry in the rodeo are largemouth, smallmouth and striped bass, sauger and walleye pike, crappie, trout, bream and bluegill.

All entries in the rodeo must be submitted to the Recreation Department office by noon, Wednesday, June 14, when they will be taken under consideration by judges.

First and second winners in each species will receive handsome prizes of outdoor sports equipment. No contestant will be eligible to receive more than one award, although any entrant may enter fish of as many species as desired.

Weight shall determine winners. In case of ties in weight, length and girth shall be used to determine the winner.

## Volleyball Tourney To Open Thursday

A tournament involving eight out of the 10 teams that competed in the Carbide Volleyball League during the recently ended season will open tomorrow night, Thursday, March 9, at the Oak Ridge High School gymnasium. The Y-12 C Shift Cats and the MIT team from Oak Ridge Gaseous Diffusion Plant, both of which withdrew from the league before the season closed, will not play.

The tournament schedule provides that at 7 p.m. on Court No. 1 the Set Ups, Oak Ridge National Laboratory; will meet the Process Engineers, of ORGDP. On Court No. 2 at the same hour the Y-12 Hunters will play the ORNL Spikers. At 8 p.m. on Court No. 1 the Y-12 Eagles will clash with ORNL Biology No. 2 team. Court No. 2 will have the ORNL Biology No. 1 outfit meeting the ORGDP A Shift. Semi-finals will be played at 9 o'clock the same night and the finals will be staged on Thursday night, March 16, also at the high school.

Father: "Yes, son, I'm a self-made man."

Son: "Dad, that's what I like about you. You take the blame for everything."

## Golf Organizational Meetings Called For Three Loops; Play Opens In April

Linksmen Interested In Competing Are Urged To Attend Sessions; Early Entries Accepted

April showers bring May flowers and also April will be showering Y-12 golfers over numerous and sundry pasture pool courses nearby. The Recreation Department has teed off on the linksmen by calling organizational meetings for three leagues that successfully operated last season with schedules expected to get underway early next month.

Here is the schedule for the organizational meetings:

Harriman—Tuesday, March 14, 7 p.m., Hut Cafeteria, Kingston.

Lenoir City—Wednesday, March 15, 7 p.m., Old Carbide Camera Club quarters in the Y-12 North Portal building.

Oak Ridge—Tuesday, March 21, 7 p.m., Old Carbide Camera Club quarters in the Y-12 North Portal Building.

A date for the organization of the Whittle Springs League for Knoxville golfers is to be announced later.

The Harriman League last season operated with 14 two-man teams, as did the Lenoir City circuit. In Oak Ridge there were 20 teams and 16 teams competed in the Whittle Springs loop. The Harriman League accommodates players from all three Carbide installations and at Lenoir City players are from Y-12 and ORNL.

All golfers interested in entering either of the leagues listed above are urged to attend the organizational meetings. Officers are to be elected and rules for seasonal play adopted.

Two-man teams intending to enter either of the circuits may do so in advance by communicating with the Y-12 Recreation Department, Room 149, Bldg. 9704-2, plant phone 7109. Such early entries can enable leagues to expedite their organization and starting time for the season.

## Pistol Training Opens On March 27

A basic pistol training school especially for beginners, both men and women, will open on Monday, March 27. Gun safety will be stressed and enforced throughout the course.

The classes will be held at the Oak Ridge Sportsmen's Association at 7 p.m. on March 27, April 3, 10, 17 and 24 and May 1. Qualified instructors will conduct the training. Pistols will be available but pupils must provide their own .22 caliber standard velocity ammunition.

For advanced enrollment or further information, interested persons may communicate with Bob Logan, Carbide plant phone 8011, or at home, Oak Ridge 483-7670.

## High Power Rifle School Will Open Classes March 16

Y-12ers desiring training in rifle firing will be offered instruction in the high power rifle school to be offered by the Oak Ridge Sportsmen's Association. The school will open at 7:30 p.m. on Thursday, March 16, at the ORSA club house under direction of Y-12er Carl G. Brewster, Medical, who has served as chief instructor for the past three years in the school.

Classes will be held every Thursday night for eight weeks at the same time and place. Approximately three hours each night will be spent in instruction in all phases of rifle shooting, equipment, ammunition and other angles.

Graduation of the class with firing at the ORSA high power rifle range will be held on Saturday, May 6.

Any Y-12ers wanting further information on enrollment or on the planned class programs may obtain it by communicating with Brewster, plant phone 7754.

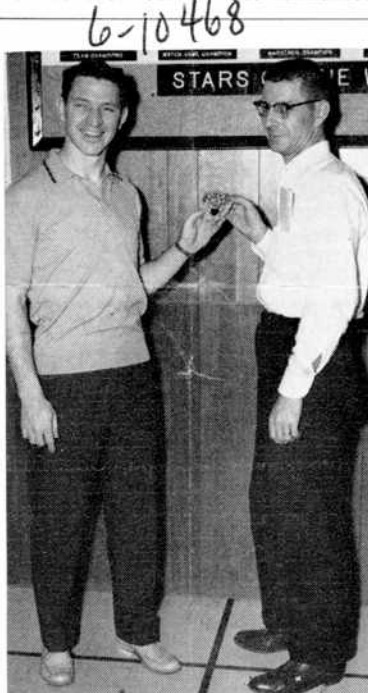
## SPs Get Top Spot In C League Race

Standings in the C League of Y-12 bowlers underwent another shuffling in alley activities on February 27. The SPs sent the Chillers to the cooler under a four-point coat of whitewash to take over the loop lead. C Shift, previous leaders, dropped to a tie for second after an even split of four points each with the Beta Four keggers. Deadlocked with C Shift was the Big Five, three-point victors over the Hilifers. The Par Busters hung a whitewash win on the Hookers, the IBMs took three from the Sunflowers and another even split was rolled by the Ramblers and Alley Cats.

Roy Scates, IBMs, again had the best scratch series of the session with 576. Curt Ridings, Big Five, had the best game scores with 219 scratch, boosted to 240 with handicap. J. F. May, had the high handicap series with 622. In team scoring the Big Five had most of the top scores with a 907 scratch and 1015 handicap game and 2547 scratch series, while the C Shift outfit got into the act with a 2918 handicap series.

League standing follows:

Team	W	L
SPs	29	15
C Shift	28	16
Big Five	28	16
Beta Fours	25	19
IBMs	24	20
Alley Cats	23	21
Hookers	22	22
Ramblers	21	23
Hilifers	20	24
Chillers	19	25
Par Busters	14	30
Sunflowers	11	33



HAPPILY RECEIVING HIS American Bowling Congress shoulder patch for rolling a "triple" of three consecutive games of 157 each is Bill Fleischman, of the Lucky Five team of the Bush League. Presenting the patch is Jack Cox, league secretary. Fleischman rolled his "triple" on the night of January 9.

## Turner-Patton Top Skeet Shooters

Turner-Patton held first place in the Y-12 Skeet League following firing on Sunday, March 5, at the Oak Ridge Sportsmen's Association. The leaders had a mark of 191, just two points more than McNabb-Montgomery in second place.

The loop leaders also led the Sunday shooters in team scoring with 39 scratch and 48 handicap out of a possible 50 points. Fred Welfare had the top individual scratch score of the day with 22 out of a possible 25; Clyde Hopkins' 27 handicap score was tops.

League standing follows:

Team	Pts.
Turner-Patton	191
McNabb-Montgomery	189
Hopkins-Summerfeld	178
Incomplete Scores	
Welfare-Bailey	167
Case-Hamby	154
Patterson-Murray	131
White-Brewster	102
Tunnell-Dunlap	54

Careful drivers are courteous.



BULK RATE  
U. S. Postage  
PAID  
Oak Ridge, Tenn.  
Permit No. 71

UNION CARBIDE  
NUCLEAR COMPANY  
Division of  
Union Carbide Corporation

Post Office Box Y  
Oak Ridge, Tenn.

RETURN POSTAGE GUARANTEED

POSTMASTER: DO NOT FORWARD. IF ADDRESSEE HAS MOVED,  
RETURN TO SENDER IMMEDIATELY.



**Riders wanted from vicinity of traffic light at Karns to West Portal, straight day.** H. E. Wright, plant phone 7-8487, home phone Knoxville 588-6869.

**Ride wanted from Highland Ave., Oak Ridge, to Bear Creek Portal, straight day.** Helen Long, plant phone 7-8703, home phone Oak Ridge 483-0071.

**Ride wanted from Andes Rd., off Middlebrook Pike, to East Portal, straight day.** C. L. Huddleston, plant phone 7141, home phone Knoxville 588-8156.

**Ride wanted from Plummer Dr., Fountain City, to North Portal, straight day.** Alice Joyce, plant phone 7554, home phone Knoxville 687-3698.

**Ride wanted from North Alabama Ave., Oak Ridge, to Biology Portal, straight day.** Diane Whaley, plant phone 7610, home phone Oak Ridge 483-5312.

**Ride wanted from 404 Robertsville Road, Oak Ridge, to Central Portal, straight day.** Helen Cunningham, plant phone 7213, home phone Oak Ridge 483-5756.

**Ride wanted from 5017 Coburn Dr., Wedgewood Hills, off Knoxville-Kingston Pike, to Bear Creek Portal, straight day.** Doris Sartelle, plant phone 7-8846, home phone Knoxville 588-2017.

**Riders wanted from Lake City to any portal, straight day.** Clyde Sharp, plant phone 7-8333, home phone Lake City 3324.

## Chemical Industry

Continued from Page 1

ana with \$278,000,000; California with \$195,000,000; Ohio with \$191,000,000; Pennsylvania with \$176,000,000; and New Jersey with \$173,000,000.

Of the total 31 projects listed in 13 communities by some 19 companies, \$59,000,000 was spent on projects completed last year. By the end of 1960 there were facilities costing \$89,000,000 under construction in the state. This year chemical manufacturers plan to spend \$5,000,000 on new and expanded facilities.

The MCA survey reveals there are 44 states in which there was some type of chemical plant construction during 1960. Total expenditures for the entire U.S. is reported at \$3,500,000,000.

### Organic Chemistry Leads

In Tennessee, chief interest of chemical manufacturers appears to be in organic chemicals. Total outlay for this category, including plastics and synthetic fibers, is \$85,000,000, according to MCA estimates. Next comes inorganic chemicals including fertilizers, reported at \$56,000,000; and the construction or expansion of laboratories, \$2,000,000.

Rounding out the top 10 states in terms of total construction following Tennessee are Florida, \$141,000,000; Kentucky, \$120,000,000; and Michigan, \$113,000,000.

Lock your classified file before leaving.

## Outlook For 1961

Continued from Page 1

been expanding. Among the new facilities under construction in Canada during 1960 were additional units for producing polyethylene and ethylene oxide at the large chemicals plant at Montreal East, Quebec. Several industrial gas installations were also among the building projects mentioned, including a new liquid oxygen plant just completed at Oakville, Ontario.

Overseas companies affiliated with Union Carbide spent \$31,000,000 on new facilities in 1960, and it is expected that this amount will be exceeded in 1961. Among the major overseas construction projects completed during the year were new chemicals plants in England and Italy and a polyethylene plastics plant in Italy. Three additional chemicals and plastics plants are among the new facilities scheduled to start operating this year.

### Research Increases

Union Carbide spent \$86,000,000 in 1960 for research and development, \$7,000,000 more than in 1959. The Corporation now has 28 major research and development laboratories working in almost every area of physical science and mathematics. Projects include several research contracts to assist the Department of Defense in solving certain of the materials problems of the missile and space age.

Additions are being made to Union Carbide's new Technical Center at South Charleston, W. Va. This center is conducting research, development and engineering activities for three divisions of the Corporation—chemicals, plastics and olefins. The Union Carbide Research Institute, a basic research activity, will be quartered in new facilities this year at the Corporation's Westchester County, N. Y., property. Also, during 1961, a nuclear reactor with special laboratories for handling radioactive materials will be placed in operation at the research center in Sterling Forest, N. Y., to study the application of nuclear radiation to materials and processes of importance in the chemical industry.

### Sales At New High

As previously reported, Union Carbide's sales in 1960 were at an all-time high, amounting to \$1,548,168,000, a slight increase over 1959 sales, which amounted to \$1,531,344,000. The chemicals group accounted for 33 per cent of the total 1960 sales. The plastics group contributed 21 per cent, the metals group, 18 per cent; the industrial gases group, 16 per cent; and the electrodes, carbons, and batteries group contributed 12 per cent.

Net income for the year was \$157,980,000, or \$5.25 a share. This compared with net income of \$171,637,000, or \$5.70 a share, in 1959. The principal reasons for the decline in net income were the decreased level of sales in alloys and electrodes caused by the reduced level of operations in the steel industry and lower selling prices for some products.

The consolidated balance sheet showed total assets of \$1,712,938,000 in 1960, compared with \$1,632,250,000 in 1959.

## ORPS Will Open Boat Handling Classes Tonight

The Oak Ridge Power Squadron again will offer its classes in small boat handling this spring for Y-12 and Oak Ridge enthusiasts. The classes will open at 7 o'clock tonight, Wednesday, March 8, at the ORPS "drydock" on the Emory Valley Road in Oak Ridge. The building is located on the south side of Emory Road across from the Retarded Children's School and there is plenty of parking room.

The course covers such topics as government and state rules and regulations covering small boats, rules of the road, aids to navigation, seamanship, river piloting, outboard boat operations, charts and safety. Instructors in the course include many Union Carbide Nuclear Company employees and all of them have passed the course and additional training in advanced navigation.

The course was inaugurated in 1947 and has been held every year since then. However, it is the first time it has been held at the "drydock" (headquarters) building of the Squadron.

Y-12ers interested in boating are urged to attend each class and report tonight for the opening of the course.

## D Shift Offers Recreation Events For Rest Of Year

Seven more recreational events have been announced for the year by the Y-12 D Shift Recreation Committee by Capt. Emmett L. Moore, of the Fire and Guard Department, committee chairman. In addition to Captain Moore, members of the committee include R. M. Foster, co-chairman, Alpha Four Cascade Operations; Zolzie Kidwell, treasurer, Stores; C. R. Martin, General Machine Shop; C. W. Perry, Alpha Four Cascade Operations; J. G. Harbur, Beta Two; W. L. Boutwell, Chemical; C. R. Owen, Sunflower Shop; W. F. Smith, Product Processing; J. F. May, Steam Plant; Paul Surber and G. A. Atchley, Guard; D. E. Bailey, Fire; J. D. Tolliver, Utilities; Henry Foust, Oak Ridge National Laboratory Reactor Division.

Future events planned are fishing rodeos April 13 and May 11, picnic June 28, weiner roast August 31, bingo party October 10, turkey shoots November 15 and December 13.

## 'Off-Job Accidents'

Continued from Page 1

description of the intended sketch is acceptable. The drawing should be on a vertical plane instead of horizontal to facilitate transfer to poster form.

Entries should be submitted to the Y-12 Safety Department, Building 9704-2, before 8 a.m. on the March 31 deadline to be eligible for the March competition.

Along with the power mower, there is always the automobile and its toll of deaths and injuries, toys, ladders, tools, slick floors, faulty steps, guns, motor boats, and so the list goes, of accident-causing facilities in everyday life. The wide selection of ideas should produce many excellent ideas for the Safety Department's consideration.

## 'Machine Tool Control' Topic At AIEE Meet Tomorrow

The Oak Ridge Section of the American Institute of Electrical Engineers will meet at 7:30 p.m. tomorrow night, March 9, in the Coral Room, Ridge Recreation Hall.

## Basketball Meet Play Is Continued

### Y-12 Rebels Ousted With Two Losses

The Carbide Basketball League tournament rolled right along last week with one team, the Rebs of Y-12, being eliminated by one loss and a forfeit. The All Stars of Oak Ridge Gaseous Diffusion Plant handed the Players, a Y-12 quintet, a 46 to 44 defeat and the Lab Demons handed Lab L a 48 to 38 licking after the Lab L outfit trimmed D Shift by 46 to 36.

The Rebels first absorbed a 49 to 36 trimming at the hands of the ORGDP Hot Shots. Then they were forced to forfeit to the Players.

The Y-12 Atoms, winners of their first two tournament games, will meet their strongest foes this week when they are slated to meet the Lab Demons. The Demons were regular season champions last season. The slate for this week also calls for the Y-12 Reactors, the 1960-61 loop titlists, to meet Lab L while the Y-12 Hawks play D Shift. The Players clash with the winner of the Reactor-Lab L battle. The All Stars and Hot Shots also are booked for a battle.

## Toppers, Scrappers Victors In Mixed

Resuming action where they left off for the George Washington birthday holiday observance, the Toppers and Scrappers kept up their sizzling rivalry for the lead in the Mixed League of Y-12 men and women bowlers. Each of the leaders posted three-point wins, the Toppers topping the Pin Plasters and the Scrappers sinking the Alley Cats. Similar wins were recorded by the Goofers over the Phantoms and the Nip and Tucks over the Cool Cats.

The Scrappers swept all team scoring honors, led by Charley Lively, who performed a similar feat in individual tallying. Lively had a 244 scratch and 262 handicap game, a fine 622 scratch series, boosted to 676 with handicap. The team came through with scores of 680, 839, 1839 and 2316.

On the feminine scoring side Ruby O'Kain, Toppers, again was the top scratch series scorer with 447. Evelyn Bell, Alley Cats, had the high handicap scores of the night with a 209 game and 594 series. The best scratch game was a 179 by Martha Helton a sub for the Goofers. Mary Cusman, Cool Cats, tied Miss Bell with a 209 handicap game.

### League standing follows:

Team	W	L
Toppers	29½	6½
Scrappers	27	9
Pin Plasters	20	16
Phantoms	16½	19½
Goofers	15	21
Nip and Tucks	15	21
Alley Cats	10½	25½
Cool Cats	10½	25½

## First Of TSJC's Computer Talks To Be Given Tonight

The first of three lectures on machine computing is announced by the Technical Societies' Joint Council. It will be held at 8 p.m. tonight, March 8, at Jefferson Junior High School, Oak Ridge.

R. K. Adams, president of the Oak Ridge Chapter of the Instrument Society of America, will discuss process control by computers and the relative cost of data reduction by hand and by machine. J. L. Gabbard, of Oak Ridge Gaseous Diffusion Plant's Data Processing Center, will

## Marksmen Capture Pistol Loop Title As Season Ended

The Y-12 Pistol League wound up its season on February 20 with the championship honors going to the Masters. In the final and 18th round of matches, even splits were posted by all four teams with the Masters dividing with the Sharpshooters and the Marksmen and Experts firing to a deadlock.

The Masters scored a close 517 to 505 scratch decision but the Sharpshooters edged out a 581.311 handicap margin. Four team members got into the high scoring act for the Masters. Dave Alford's 275 scratch was tops with C. C. Beeler trailing at 242. In handicap scoring it was Newt Hamby 289.239 and J. H. Shoemaker 283.538. For the Sharpshooters Ed Bailey had marks of 279 and 292.677 to lead the Sharpshooters and Finis Patton was second with 226 and 288.634.

In the other shooting match the Experts had a 506 to 489 scratch win with K. A. Schumaker hitting 261 and J. V. Ledbetter 245. Ledbetter had a 288.263 handicap score and J. C. Clark 279.134. For the Marksmen T. J. Bush registered 249 scratch and 287.015 handicap. Tommy Swindell had a 240 scratch for second scratch and H. A. Lasater was top handicap gun with 289.492.

### Final League standing follows:

Team	W	L
Masters	28	8
Sharpshooters	25	11
Experts	12	24
Marksmen	7	29

## Smelters Threaten Bumpers In Classic

The Bumpers and Rippers both were victorious in Classic League bowling, taking three points each from the Wolves and Rebels respectively in last week's alley activities to maintain their first and third places on the ladder. The Smelters smote the Playboys for a four-point whitewash triumph to sneak into second place and the Swingsters dropped to fourth after a tie of two points each with the All Stars. The Sportsmen advanced several places by blanking the Markers for four and the Eight Balls stung the Wasps by a similar tally. The Cubs clawed the Tigers for three and the Screwballs took two and one-half points from the Has Beens.

Len Hart, many times Y-12 Plant bowling champion and rolling for the Bumpers, nicked a nifty 638 scratch series for high gun and then boosted it to 647 with handicap. Wayne Groppe, Rippers, had the best individual game scores with 242 and 253. In team scoring the Bumpers had the top series scores of 2736 and 2920 while the Rippers posted the top game scores of 940 and 1026.

Team	W	L
Bumpers	30	10
Smelters	26	14
Rippers	25½	14½
Swingsters	25	15
Sportsmen	24	16
Has Beens	22½	17½
Wasps	22	18
Cubs	20	20
All Stars	19	21
Tigers	18	22
Wolves	17	23
Rebels	17	23
Playboys	15	25
Eight Balls	15	25
Screwballs	14½	25½
Markers	9½	30½

show how computers can be used to calculate program tapes to control the operation of automatic machine tools. R. S. Bender, of Oak Ridge National Laboratory's cyclotron project, will discuss the problems involved in calculating the optimum magnetic field configuration for this cyclotron. These three talks are designed to illustrate the relationship between computers and various different kinds of technical problems.

The public is invited to attend these TSJC computer programs.